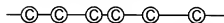
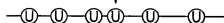
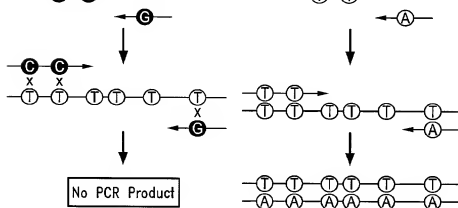
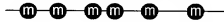


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Denatured (single-stranded)
Unmethylated Genomic DNA

Sodium Bisulfite Conversion

Methylated MSP
PCR ReactionUnmethylated MSP
PCR ReactionDenatured (single-stranded)
Methylated Genomic DNA

Sodium Bisulfite Conversion

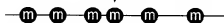
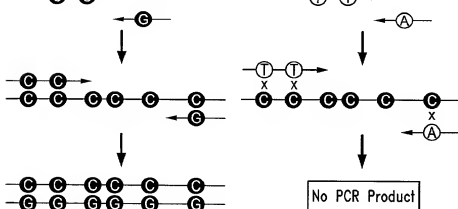
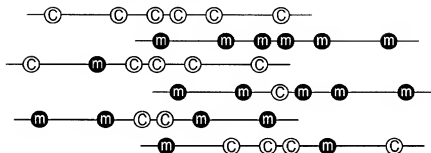
Methylated MSP
PCR ReactionUnmethylated MSP
PCR Reaction

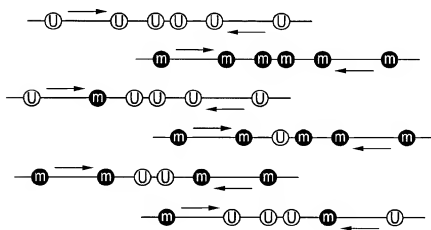
Fig. 1

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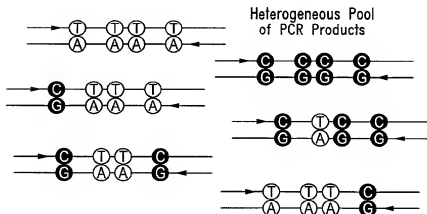
Denatured (single-stranded) Genomic DNA
of Mixed Methylation Status



Sodium Bisulfite Conversion



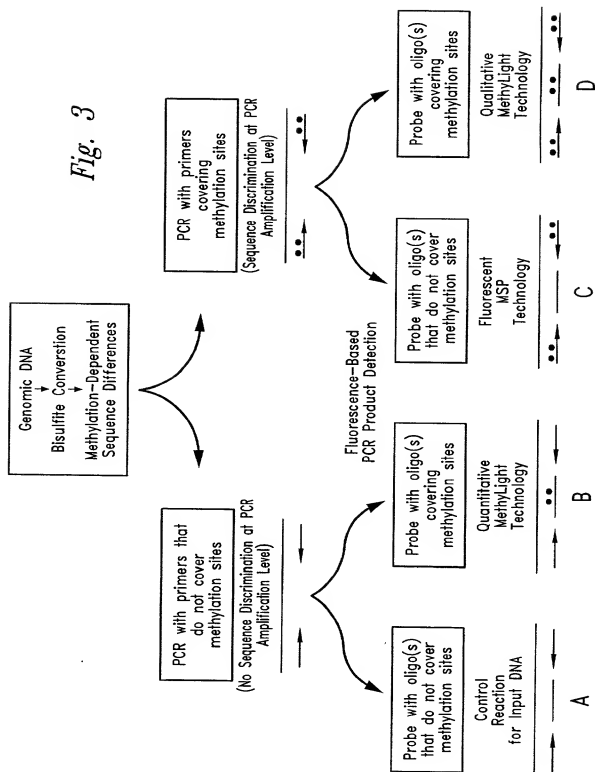
PCR



Heterogeneous Pool
of PCR Products

Fig. 2

Fig. 3



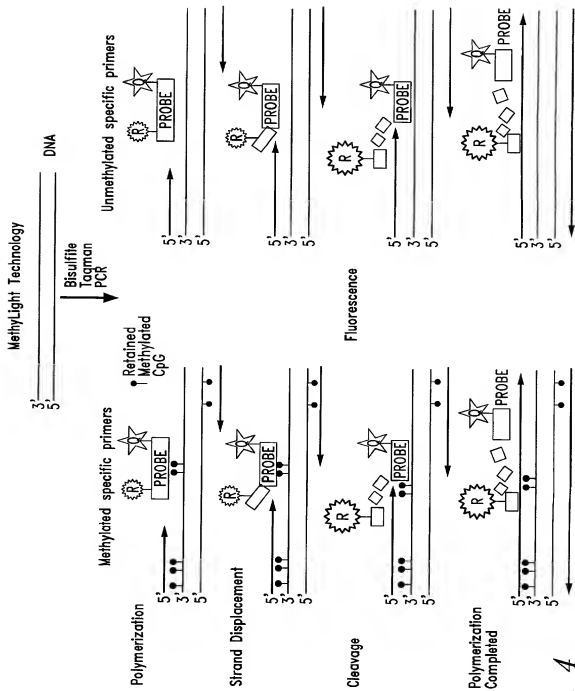


Fig. 4

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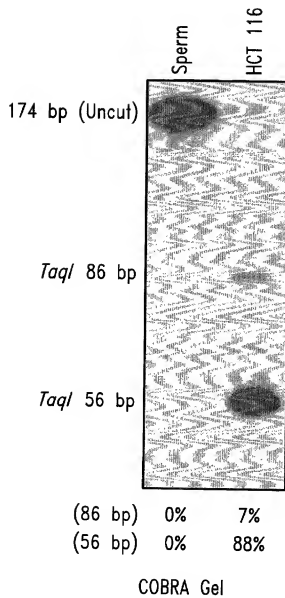


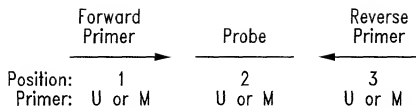
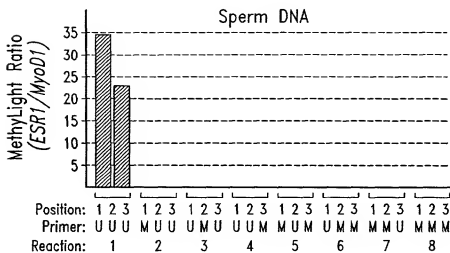
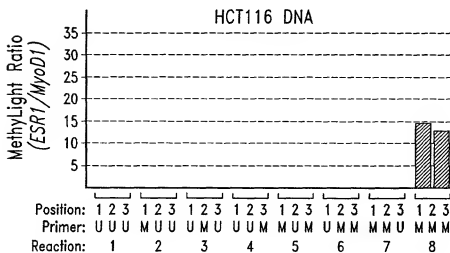
Fig. 5A

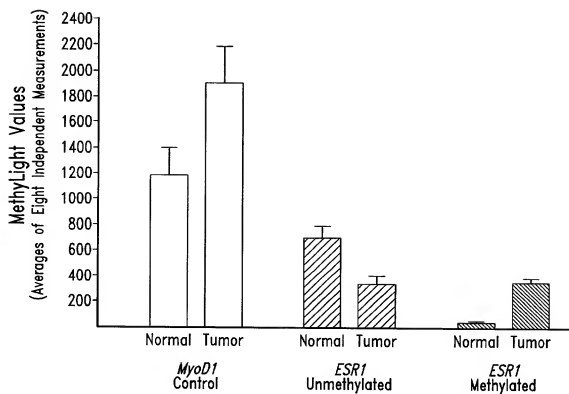
Methylation Analysis of the *ESR1* Gene

DNA	COBRA (% One or Two Sites Methylated)	MethylLight (Ratio of Methylated / Control)	MethylLight (Ratio of Unmethylated / Control)
<i>Bisulfite Treated</i>			
Sperm	0%	0	62
HCT116	95%	36	0
<i>Untreated</i>			
Sperm	No PCR	0	0
HCT116	No PCR	0	0

Fig. 5B

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*Fig. 6A**Fig. 6B**Fig. 6C*

*Fig. 7*

